

## EAST Search History

| Ref # | Hits    | Search Query   | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|------------------------------|------------------|---------|------------------|
| L1    | 13041   | electronic adj module  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22-15:52 |
| L2    | 1       | 1 and (wiring) and (vertical) and (horizontal) and (reducing adj propagation)                                | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 15:53 |
| L3    | 18      | (wiring) and (vertical) and (horizontal) and (reducing adj propagation)                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 15:57 |
| L4    | 1       | (wiring) and (vertical adj line) and (horizontal adj line) and (reducing adj propagation)                    | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 15:55 |
| L5    | 8       | (wiring) and (vertical) and (horizontal) and (reducing adj propagation) and (component)                      | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22-16:03 |
| L6    | 1       | (wiring) and (vertical adj line adj routing) and (horizontal) and (reducing adj propagation) and (component) | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:02 |
| L7    | 1229816 | (wire)   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22-16:03 |
| L8    | 3       | 7 and (vertical adj line adj routing) and (horizontal adj routing)   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:05 |
| L9    | 192915  | 7 and (components) and (reducing propagation adj time adj delays)  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:16 |
| L11   | 1252    | 9 and (vertical adj line) and (horizontal adj line)  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:07 |
| L12   | 41      | 11 and solid adj angles  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:07 |
| L14   | 40      | 12 and ( path)   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:08 |
| L15   | 19      | 14 and (three adj dimensional)   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:08 |
| L16   | 3       | 15 and spiral  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/22 16:17 |

## EAST Search History

|     |         |   |                              |    |    |                  |
|-----|---------|---|------------------------------|----|----|------------------|
| L19 | 3       | 16 and electrical   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:09 |
| L20 | 3       | 19 and component  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:09 |
| L21 | 3       | 20 and passive  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:24 |
| L23 | 42      | "4016483"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:15 |
| L24 | 19566   | 9 and three adj dimensional   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:15 |
| L25 | 82      | 24 and wiring adj path  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:18 |
| L26 | 82      | 25 and (components) and<br>(reducing propagation adj time adj<br>delays)              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:16 |
| L29 | 3       | 26 and spiral   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:21 |
| L30 | 1       | 29 and passive  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:17 |
| L31 | 39      | 25 and (wiring adj path) and<br>(vertical adj line) and (horizontal<br>adj line)      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:20 |
| L33 | 1       | 25 and inductive and passive and<br>component   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:21 |
| L34 | 1       | three adj dimennsional  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:25 |
| L36 | 1229816 | wire  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:26 |
| L37 | 43207   | 36 and three-dimensional  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:36 |
| L39 | 14      | 37 and (propagation adj time) and<br>(vertical adj line) and (horizontal<br>adj line) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:28 |

## EAST Search History

|     |       |  |                              |    |    |                  |
|-----|-------|--|------------------------------|----|----|------------------|
| L44 | 7     | "82" and (propagation adj time) and (passive) and (spiral) and (sheet) and (component) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:53 |
| L46 | 55687 | 36 and three adj dimensional   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:36 |
| L47 | 43923 | 46 and wire and line   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:37 |
| L48 | 80    | 47 and 25  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:37 |
| L50 | 1     | 48 and (spiral) and (sheet) and (passive) and (component) and (inductive)              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:54 |
| L53 | 3700  | 36 and propagation adj time  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:55 |
| L55 | 1     | 50 and (spiral) and (sheet)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:55 |
| L56 | 1     | 55 and (passive) and (component) and (inductive)                                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:55 |
| L58 | 575   | 53 and passive   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:56 |
| L59 | 30    | 58 and spiral  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:56 |
| L60 | 8     | 59 and sheet   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:56 |
| L61 | 8     | 60 and component   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:56 |
| L62 | 2     | 61 and three adj dimensional   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 16:59 |
| L64 | 34    | "5869896"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:00 |
| L65 | 42    | "4016483"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:01 |

## EAST Search History

|     |        |   |                              |    |    |                  |
|-----|--------|---|------------------------------|----|----|------------------|
| L66 | 333430 | wiring  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:02 |
| L67 | 261785 | 66 and lines  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:02 |
| L68 | 14668  | 67 and propagation                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:02 |
| L69 | 2447   | 68 and time adj delays                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:02 |
| L70 | 801    | 69 and routing  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:02 |
| L71 | 7      | 70 and (vertical adj line) and<br>(horizontal adj line) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:04 |
| L72 | 1      | 71 and wiring adj paths                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:03 |
| L73 | 5      | 71 and component and pad                                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:42 |
| L74 | 1      | 73 and solid adj angles                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:19 |
| L75 | 628    | wiring adj block  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:43 |
| L76 | 7      | 75 and propagation adj time                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:43 |
| L77 | 7      | 76 and lines  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:43 |
| L78 | 2      | 77 and component  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/12/22 17:43 |

## EAST Search History

| Ref # | Hits    | Search Query   | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|------------------------------|------------------|---------|------------------|
| S1    | 27      | "6528869"  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:38 |
| S2    | 1       | "20040132300"  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:43 |
| S3    | 543     | 257/658.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:43 |
| S4    | 87      | S3 and wire  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:43 |
| S5    | 51      | S4 and lines   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:43 |
| S6    | 4       | S5 and carbon  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:43 |
| S7    | 1       | S6 and plastic   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/12/21 15:44 |
| S10   | 38      | ("4016483").URPN.  | USPAT                        | OR               | ON      | 2007/12/21 15:48 |
| S15   | 6713    | nanoparticles  | USPAT                        | OR               | ON      | 2007/12/21 15:50 |
| S16   | 1231    | S15 and wire   | USPAT                        | OR               | ON      | 2007/12/21 15:50 |
| S17   | 862     | S16 and lines  | USPAT                        | OR               | ON      | 2007/12/21 15:50 |
| S18   | 1       | S17 and carbon near plastic                              | USPAT                        | OR               | ON      | 2007/12/21 15:51 |
| S20   | 2399634 | lines  | USPAT                        | OR               | ON      | 2007/12/21 15:52 |
| S21   | 33      | S20 and carbonized near plastic                          | USPAT                        | OR               | ON      | 2007/12/21 15:52 |
| S22   | 1921    | S21 and nano adj particles or<br>micro adj particles     | USPAT                        | OR               | ON      | 2007/12/21 15:53 |
| S24   | 16712   | short same circuit same path                             | USPAT                        | OR               | ON      | 2007/12/21 15:54 |
| S25   | 1       | S24 and S4   | USPAT                        | OR               | ON      | 2007/12/21 18:53 |
| S28   | 13      | "6239980"  | USPAT                        | OR               | ON      | 2007/12/21 18:58 |
| S29   | 2       | S3 and wires and lines and carbon                        | USPAT                        | OR               | ON      | 2007/12/21 18:59 |
| S30   | 1       | S29 and wires and lines and<br>carbon and plastic        | USPAT                        | OR               | ON      | 2007/12/21 19:24 |
| S31   | 2       | "6226973"  | USPAT                        | OR               | ON      | 2007/12/21 20:16 |
| S32   | 32      | "5869896"  | USPAT                        | OR               | ON      | 2007/12/21 20:19 |
| S33   | 1223    | 257/724.ccls.  | USPAT                        | OR               | ON      | 2007/12/21 20:19 |
| S34   | 3       | S33 and (vertical adj line) and<br>(horizontal adj line) | USPAT                        | OR               | ON      | 2007/12/21 20:22 |

## EAST Search History

|     |      |  |       |    |    |                  |
|-----|------|--|-------|----|----|------------------|
| S35 | 2    | S33 and (wire) and (horizontal adj line) and (vertical adj line) | USPAT | OR | ON | 2007/12/21 20:30 |
| S36 | 50   | S33 and time same delay  | USPAT | OR | ON | 2007/12/21 20:30 |
| S37 | 17   | S36 and propagation  | USPAT | OR | ON | 2007/12/21 20:32 |
| S40 | 15   | S37 and wire   | USPAT | OR | ON | 2007/12/21 20:32 |
| S42 | 14   | S40 and line   | USPAT | OR | ON | 2007/12/21 20:35 |
| S43 | 1    | S33 and wiring adj block   | USPAT | OR | ON | 2007/12/21 20:38 |
| S44 | 389  | wiring adj block   | USPAT | OR | ON | 2007/12/21 20:38 |
| S45 | 10   | S44 and (horizontal adj line) and (vertical adj line)            | USPAT | OR | ON | 2007/12/21 20:38 |
| S46 | 6    | S45 and time same delay  | USPAT | OR | ON | 2007/12/21 20:39 |
| S47 | 4    | S46 and propagation  | USPAT | OR | ON | 2007/12/21 20:42 |
| S48 | 47   | S44 and component and pad  | USPAT | OR | ON | 2007/12/21 20:50 |
| S49 | 1    | S48 and time adj delay   | USPAT | OR | ON | 2007/12/21 20:43 |
| S51 | 7966 | electronic adj module  | USPAT | OR | ON | 2007/12/21 20:50 |
| S52 | 476  | S51 and wiring and component and pad                             | USPAT | OR | ON | 2007/12/21 20:50 |
| S53 | 4    | S52 and horizontal adj line                                      | USPAT | OR | ON | 2007/12/21 20:52 |
| S54 | 3188 | board same type same carrier                                     | USPAT | OR | ON | 2007/12/21 20:53 |
| S55 | 16   | S54 and stratum  | USPAT | OR | ON | 2007/12/21 20:53 |
| S56 | 8    | S55 and component and pad and wire                               | USPAT | OR | ON | 2007/12/21 20:54 |